

RF Exposure Report

Application No.: FYCR2206000250AT
Applicant: INNOVATIVE TECHNOLOGY ELECTRONICS LLC
Address of Applicant: 3513 Brighton Blvd Suite 570 Denver Colorado 80216 United States
Manufacturer: Shenzhen Antexin Technology Co., Ltd.
Address of Manufacturer: 4th Floor Bldg 2, Fuxingda Industrial Park, Lanzhu East Road, Longtian St, Pingshan District Shenzhen, Guangdong, China 518118
Factory: Shenzhen Antexin Technology Co., Ltd.
Address of Factory: 4th Floor Bldg 2, Fuxingda Industrial Park, Lanzhu East Road, Longtian St, Pingshan District Shenzhen, Guangdong, China 518118
Equipment Under Test (EUT):
EUT Name: Portable Bluetooth Speaker
Model No.: VPB-400-BLK, VPB-400-SLV, VPB-400-BLK-INT, VPB-400-SLV-INT, VPB-400xxxx (where "x" can be 0-9, A-Z, "-" or blank and means color code of unit), VPB-400xxxxyyy (where "x" can be 0-9, A-Z, "-" or blank and means color code of unit; and where "y" can be A-Z and means Market Code)
♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: **VICTROLA™**
FCC ID: 2AFHW-VPB400
Standard(s) : 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt: 2022-06-24
Date of Test: 2022-07-15 to 2022-09-01
Date of Issue: 2022-09-14

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Winkey Wang
EMC Technical Manager



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025005

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-09-14		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/Reviewer		



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2 Evaluation Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
RF Exposure	47 CFR PART 1, Subpart I, Section 1.1310	KDB 680106 D01 TCB Workshop Presentation November 2019 RF Exposure	CFR 47 Part 1.1310	Pass

Declaration of EUT Family Grouping:

Model No.: VPB-400-BLK, VPB-400-SLV, VPB-400-BLK-INT, VPB-400-SLV-INT, VPB-400xxxx (where "x" can be 0-9, A-Z, "-" or blank and means color code of unit), VPB-400xxxxyyyy (where "x" can be 0-9, A-Z, "-" or blank and means color code of unit; and where "y" can be A-Z and means Market Code)

Only the model VPB-400-BLK was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on the color, model No., brand name for trading purpose.



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4 General Information**4.1 Details of E.U.T.**

Power supply:	Rechargeable battery DC7.4V,4400mAh Adapter Model: GKYZB0200050US Input:AC100-240V 50/60Hz 0.5A MAX Output: DC5V 2000mA
Cable(s):	Type-C USB cable:30cm unshielded
Operation frequency:	111.8kHz to 145.2kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00
E-loading	SGS	N/A	REF. No.SEA42A00



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4.3 Test modes description:

Pre-scan / Final test	Mode Code	Description
Pre-scan	08	Charge mode_Keep the EUT charging(5W)
Pre-scan	09	Charge mode_Keep the EUT charging(7.5W)
Final test	10	Charge mode_Keep the EUT charging(10W)
Final test	11	Charge mode_Keep the EUT charging(10W) while BT Bluetooth works simultaneously.



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4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
RF Exposure Evaluation	MF: 0.13dB, EF: 0.4dB

5 Equipments Used during Test

RF Exposure					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi- Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Electric and Magnetic Field Probe - Analyzer(3kHz-30MHz)	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1



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5.1 Evaluating Location

All tests were performed at:

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Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

5.2 Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.



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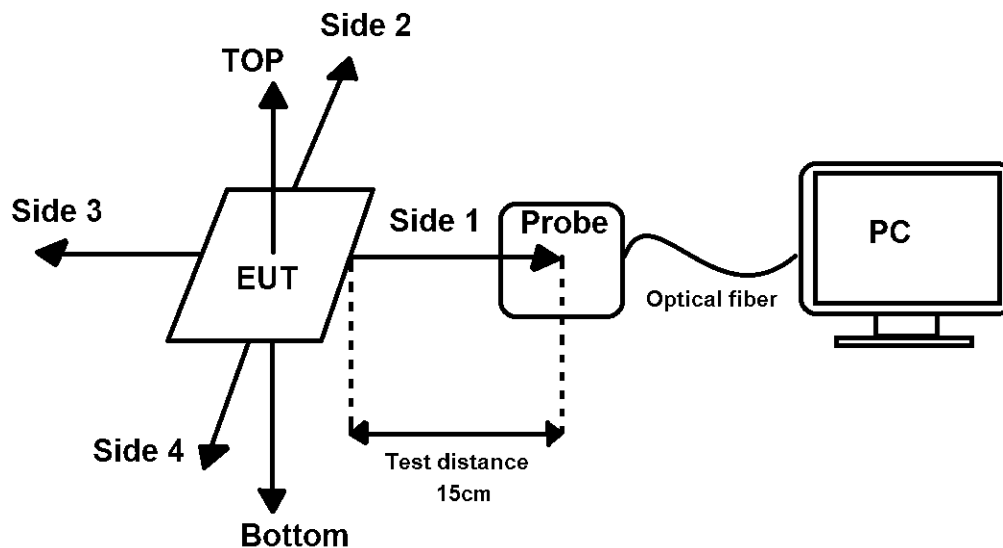
5.3 Deviation from Standards

None

5.4 Abnormalities from Standard Conditions

None

5.5 Test Block Diagram



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6 Test Results

6.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

Measurement Distance: 15cm

Limit:

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz
 *=Plane-wave equivalent power density
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

S = power density (mW/cm²)
 P = the net power delivered to the antenna (mW)
 G = gain of the antenna in linear scale
 d = distance between observation point and center of the radiator (cm)



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6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 55.6% RH Atmospheric Pressure: 1020 mbar

EUT Operation:

This device has been tested with unload, half-load and full load, and the device has been tested with load at zero charge, intermediate charge, and full charge.

Remark: Both configuration which specified in the manual were pre-scan during the test, only the worst case data are shown in the test report. The worst case configuration please refer to the setup photos.



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6.1.2 Measurement Data

Test mode:10

Input Voltage=DC 5V; The max output power =10W for each coil.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
125 kHz which is the worst case within the operation frequency range	15	Side 1	0.071	0.080	0.098	0.815	0.163
		Side 2	0.061	0.075	0.085		
		Side 3	0.073	0.086	0.099		
		Side 4	0.055	0.062	0.074		
		Top	0.065	0.074	0.093		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
125 kHz which is the worst case within the operation frequency range	15	Side 1	0.091	0.077	0.061	0.815	0.163
		Side 2	0.078	0.066	0.052		
		Side 3	0.095	0.080	0.063		
		Side 4	0.074	0.062	0.049		
		Top	0.087	0.073	0.058		



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Test mode:11

Input Voltage=DC 5V; The max output power =10W while BT
Bluetooth works simultaneously.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
125 kHz which is the worst case within the operation frequency range	15	Side 1	0.074	0.082	0.099	0.815	0.163
		Side 2	0.063	0.076	0.086		
		Side 3	0.077	0.087	0.103		
		Side 4	0.056	0.068	0.075		
		Top	0.068	0.078	0.095		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
125 kHz which is the worst case within the operation frequency range	15	Side 1	0.093	0.078	0.063	0.815	0.163
		Side 2	0.081	0.068	0.054		
		Side 3	0.096	0.084	0.065		
		Side 4	0.077	0.063	0.053		
		Top	0.092	0.075	0.061		



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7 Photographs- RF exposure Setup photos

Refer to Appendix – RF Exposure Setup Photo for FYCR2206000250AT

- End of the Report -



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